National Mathematics Magazine

INDEX TO VOLUME XIII

October, 1938 to May, 1939

Topic	*Author*	*Page*
Advanced Analytic Geometry, by Alan C. Campbell. (Review)	William E. Byrne	53
Advanced Mathematics for Engineers, by H. W. Reddick and F. H. Miller. (Review)	J. W. Cell	140
Analytic Geometry, by Roscoe Woods. (Review)	V. G. Grove	352
Another Start	Brother Bernard Alfred F. S. C.	133
Approach to Trigonometry	A. L. O'Toole	373
Better Elementary Method for Computing Logs and Antilogs	A. B. Soble	231
Binomial Congruences	Emory P. Starke	163
Calculus, by Edward S. Smith, Mayer Salkover, Howard K. Justice. (Review)	Marian E. Daniells	107
Collected Works of George Abram Miller, Vol. II, by University of Illinois Press. (Review)	F. E. Johnston	142
College Algebra, by Edwin R. Smith. (Review)	G. D. Gore	104
College Algebra, (Second Revised Edition), by Louis J. Rouse. (Review)	H. A. Simmons	297
College Mathematics, by M. A. Hill, Jr. and J. Burton Linker. (Review)	P. K. Smith	54
Concerning the Distribution of the Mean of r Independent Chance Variables When Each Is Subject to the Frequency Law $\frac{\Gamma(p+q)}{\Gamma(p)\Gamma(q)} x^{p-1}(1-x)^{q-1}$	William Dowell Baten	357
Continued Fractions	W. T. Short and H. S. Wall	305
Coordinate Solid Geometry, by Robert J. T. Bell. (Review)	William E. Byrne	255
Demonstration of Intersections	W. V. Burg	192
Der deutsche Verein zur Förderung des mathematischen und naturwissenschaftlichen Unterrichts e.V., by William Lorey. (Review)	G. Waldo Dunnington	399
Education of Mathematics Teachers	William L. Schaaf	83
Elementary Mathematical Statistics, by W. D. Baten. (Review)	Henry A. Robinson	207
Engineering Mathematics	William E. Byrne	60
Enriched Teaching of Mathematics in the Junior and Senior High School, by Maxie Nave Woodring and Vera Sanford. (Review)	P. K. Smith	401
Envelopes Associated with a One-Parameter Family of Straight Lines	Harriet F. Montague	73
Essentials of the Mathematics of Investment, by Paul R. Rider. (Review)	Clifford Bell	51
Essentials of Engineering Mathematics, by J. P. Ballantine. (Review)	Ralph A. Hefner	208
Exposition	James McGiffert	261
First College Course in Algebra	T. M. Gorski and William H. Powers	34
First Lesson in the History of Mathematics	G. A. Miller	272

Topic	*Author*	*Page*
Harmonic Mean	J. F. Kenney	171
Harmonic Series in Interest Problems	Isidor F. Shapiro	230
Higher Mathematics, by R. S. Burington and C. C. Torrance. (Review)	William E. Byrne	401
How a Lady's Dress Influenced Mathematical History. (A true story)	B. M. Walker	233
Importance of Certain Concepts and Laws of Logic for the Study and Teaching of Geometry, by Nathan Lazar. (Review)	F. C. Gentry	103
Intermediate Algebra, by W. E. Brooke and H. B. Wilcox. (Review)	J. F. Kenney	106
Introduction to Projective Geometry, by C. W. O'Hara and D. R. Ward. (Review)	Henry A. Robinson	51
Introduction to the Theory of Groups of Finite Order, by Robert D. Carmichael. (Review)	L. W. Griffiths	353
Introductory Mathematical Analysis, by Joel S. Georges and Jacob M. Kinney. (Review)	P. K. Smith	256
Invariants and Elementary Mathematics	H. V. Craig	176
Isaac Newton, by J. W. N. Sullivan. (Review)	G. Waldo Dunnington	141
Line Motion and Trisection	Robert C. Yates	63
Living Mathematics, by Ruch, Knight and Hawkins. (Review)	W. A. Snyder	252
Louisiana State University Host, 1940, to A. M. S. and M. A. of A.	S. T. Sanders	356
Mathematical Snapshots by H. Steinhaus. (Review)	Robert C. Yates	351
Mathematical World News	L. J. Adams	37
Mathematical World News	L. J. Adams	90
Mathematical World News	L. J. Adams	137
Mathematical World News	L. J. Adams	194
Mathematical World News	L. J. Adams	242
Mathematical World News	L. J. Adams	281
Mathematical World News	L. J. Adams	336
Mathematical World News	L. J. Adams	376
Mathematics and the American Institution of Learning	S. T. Sanders	112
Mathematics Situation in Louisiana	S. T. Sanders	260
Nature of Mathematics	A. L. O'Toole	323
Nature of Proof, by Harold P. Fawcett. (Review)	E. R. Breslich	298
Notable Points Associated with a Triangle	J. W. Peters	122
Note on Chords of a Conic	T. E. Raiford	72
Note on Roman Numerals	Allen A. Shaw	127
Note on the Method of "Moment Areas"	H. R. Grummann	30
Note on the Projection of Three Collinear Points Into Three Other Collinear Points	C. R. Wylie, Jr.	278
Notes on Two Curves Associated with a Variable Triangle	M. L. Vest	215
On Control	Norman E. Rutt	160
On Cubic Diphantine Equations	W. V. Parker and A. A. Aucoin	115
On Harmonic Separation	Archibald Henderson and John Wayne Lasley, Jr.	3
On the Applications of Mathematics	S. T. Sanders	304
Overlooked Numeral System of Antiquity	Allen A. Shaw	368
Plane Geometry, by George T. Major. (Review)	H. F. Schrœder	254

Topic	*Author*	*Page*
Poristic Locus of the Gergonne Point	Daniel Arany	367
Portraits of Eminent Mathematicians with Brief Biographical Sketches, by David Eugene Smith. (Review)	Henry Schroeder	55
Practical Business Mathematics, by Justin A. Moore and Julio A. Mira. (Review)	Paul R. Rider	206
Pre-Euclidean Fragment of the Elements	Allen A. Shaw	76
President Hotchkiss on the Place of Mathematics in Our Schools	Wm. O. Hotchkiss	2
Problem in Minimum Values	Frank A. Rickey	362
Problem of Presentation in Trigonometry	Louis C. Karpinski	240
Review Course in Algebra, by W. E. Sewell. (Review)	H. L. Garabedian	103
Short Course in Trigonometry (Revised Edition), by James G. Hardy. (Review)	H. W. Bailey	296
Solution of Numerical Equations by Use of the Circle of Curvature	Richard J. Wells	67
Solutions of the Quadratic Equation Obtained by the Aid of the Trigonometry	H. T. R. Aude	118
Some Functions Analogous to Trigonometric and Hyperbolic Functions	V. B. Temple	263
S. P. E. E. Project	John W. Cell	212
Study and Teaching of the History of Mathematics	U. G. Mitchell	22
Subject or the Student	Glenn James	129
Text-Book of Convergence, by W. L. Ferrar. (Review)	Gaines B. Lang	205
Theoretical Mechanics—A Vectorial Treatment, by C. J. Coe. (Review)	J. W. Cell	397
Theory of Roulettes and Glissettes	Gordon Walker	223
Trigonometry, by Howard K. Hughes and Glen T. Miller. (Review)	Edwin G. Olds	300
Unification of Plane and Solid Analytic Geometry	C. R. Wylie, Jr.	189
Unpublished Mathematical Manuscripts in American Libraries	A. W. Richeson	183
Vexing Minor Problems of the Mathematics Curriculum	Cecil B. Read	237
Why Learn Mathematics?	Edwin G. Olds	329

PROBLEMS PROPOSED

Of each pair of successive numbers followed by a semicolon, or a period, the first denotes the NUMBER of the problem proposed, the second, the PAGE on which it is stated.

Arany, Daniel ..... 292,349.
Aude, H. T. R. ..... 268,203; 275,251; 283,294; 297,350; 303,396.
Bickerstaff, T. A. ..... 7,93; 42,94.
Bush, L. E. ..... 288,294.
Byrne, William E. ..... 15,48; 291,348.
Clarke, Walter B. ..... 193,41; 212,45; 217,45; 247,49; 229,98; 252,100; 259,156; 112,199; 272,204; 218,245; 228,246; 294,349; 302,396.
Duncan, D. C. ..... 234,150.
Emch, Arnold ..... 267,203.
Fairchild, J. T. ..... 20,93.
Farnell, Albert ..... 208,42; 223,97; 227,97; 285,294; 308,397.

Fender, Fred.....250,50.
Gaines, R. E.....299,350.
Grant, H. S.....305,397.
Grossman, Howard D.....293,349; 298,350.
Kac, M.....282,293.
Kennedy, E. C.....264,156; 242,201.
Kenny, F. M.....33,48.
Lancaster, O. E.....270,203.
Luke, Yudell.....251,100; 287,294; 304,397.
MacKay, D. L.....280,251.
Miller, Julius S.....246,49.
Mills, C. N.....263,156; 306,397.
Mœssner, A.....210,42; 222,96.
Nichols, I. C.....274,251.
Parker, W. V.....249,49; 257,101; 241,154; 249,285; 296,349; 309,397.
Peters, J. W.....290,295.
Randall, A. W.....59,147.
Robertson, M. S.....248,49; 254,100; 260,156; 273,204; 248,250.
Rosenbaum, J.....177,94; 253,100; 265,156; 266,157; 279,251; 284,294.
Shirley, E. M.....38,100.
Simpson, Jeannette.....219,47.
Springer, C. E.....256,101; 235,152; 256,340.
Starke, E. P.....211,44; 221,95; 258,102; 233,149; 237,200; 276,251; 307,397.
Thébault, V.....164,39; 244,48; 245,48; 255,101; 232,148; 236,153; 261,156; 262,156; 239,200; 269,203; 278,251; 286,294; 289,295; 295,349; 301,396.
Thompson, R. B.....57,100.
Trigg, C. W.....277,251.
Wishard, G. W.....220,95; 240,201; 300,396.
Yates, Robert C.....243,155; 271,204; 281,293.

PROBLEMS SOLVED

Of each pair of successive numbers followed by a semicolon, or a period, the first denotes the NUMBER of the problem proposed, the second, the PAGE on which it is solved.

Alrich, G. F.....257,383.
Aude, H. T. R.....220,95; 15,198; 33,198; 267,386; 268,388.
Ayre, H. G.....220,95.
Bælof, C. A.....193,41; 20,93; 42,94; 177,94; 59,147; 15,198; 33,198; 112,199; 137,379.
Byrne, W. E.....15,146; 256,340; 264,348.
Christensen, Annie M. H.....267,388.
Clack, Robert W.....7,93; 239,200.
Clarke, Walter B.....164,41; 241,155; 243,155; 33,198; 38,245; 228,247; 250,287; 252,289; 255,338.
Dantzig, Henry.....252,288.
Editors.....265,384; 266,386.
Farnell, Albert.....208,42; 246,203; 38,245; 252,289; 254,291; 262,347; 267,388; 269,390.
Fender, Fred.....250,287; 270,392.
Gault, A. E.....260,345; 267,388.
Graham, Dorothy.....267,388.
Hallett, John.....260,345.

Kelly, L. M. . . . . 267,388; 271,393.
Kennedy, E. C. . . . . 242,201; 264,348.
Lang, Annie L. . . . . 267,388.
Lewis, Eunice . . . . . 267,387.
Luke, Yudell . . . . . 219,48; 251,288.
MacKay, D. L. . . . . 33,198; 260,344; 267,387; 271,393; 272,394.
Mahrenholz, Johannes . . . . . 222,244; 247,250; 57,284; 250,287; 254,291; 258,292; 261,346; 263,347; 257,383; 267,388; 268,389; 269,390; 271,392; 271,393.
Malvern, Lawrence E. . . . . 267,388.
Marer, Fred . . . . . 232,148; 241,155; 237,200; 239,200; 242,201; 33,244; 249,286; 260,345; 262,347; 263,347; 364,348; 267,388.
Meyer, Lucille . . . . . 262,347.
Mœssner, A. . . . . 210,42.
Mulcrone, T. F. . . . . 33,198; 246,202; 274,394; 275,395.
Nichols, I. C. . . . . 274,394.
Parker, W. V. . . . . 221,95; 257,382.
Pettit, H. P. . . . . 267,388.
Richtmeyer, Cleon C. 267,388;
Robertson, M. S. . . . . 248,250; 254,291.
Rosenbaum, J. . . . . 253,290; 270,390; 271,393.
Schrœder, Henry. . . . . 259,343.
Short, W. T. . . . . 212,45; 217,46; 260,345.
Springer, C. E. . . . . 235,153; 256,343.
Starke, E. P. . . . . 211,44; 222,96; 233,149; 234,151; 276,395.
Thébault, V. . . . . 164,39; 232,149; 255,340; 262,347; 187,379.
Thompson, W. Irwin . . . . . 15,146; 38,245; 260,345; 267,388.
Trigg, C. W. . . . . 207,48; 217,45; 219,47; 220,95; 229,98; 232,149; 236,153; 241,154; 243,155; 33,198; 237,200; 239,200; 240,201; 242,201; 246,203; 38,244; 218,245; 228,246; 244,247; 247,249; 250,286; 251,287; 252,289; 253,290; 260,345; 261,346; 262,346; 263,347; 267,388; 269,389; 271,393; 275,395.
Volckhausen, W. R. . . . . 42,94.
Wales, Michæl . . . . . 227,97.
Wedel, E. B. . . . . 235,152.
Wescott, M. E. . . . . 270,392.
Wishard, G. W. . . . . 220,95; 223,97; 33,198; 240,201; 246,203; 250,287; 261,345; 262,347; 263,347; 268,389; 269,390.
Yates, Robert C. . . . . 243,155; 271,393.